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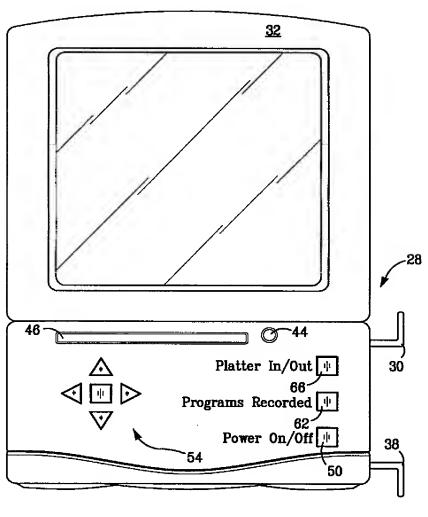
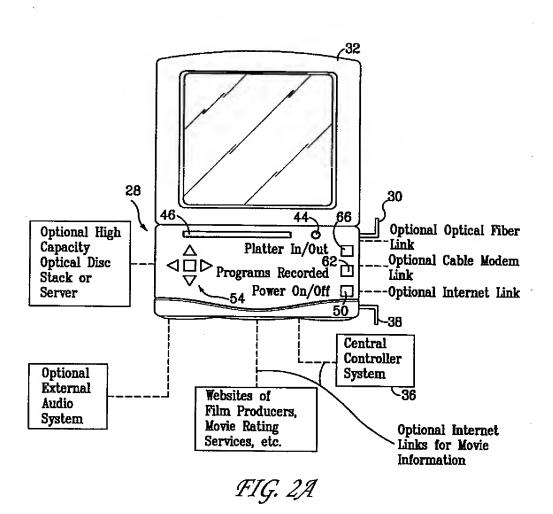
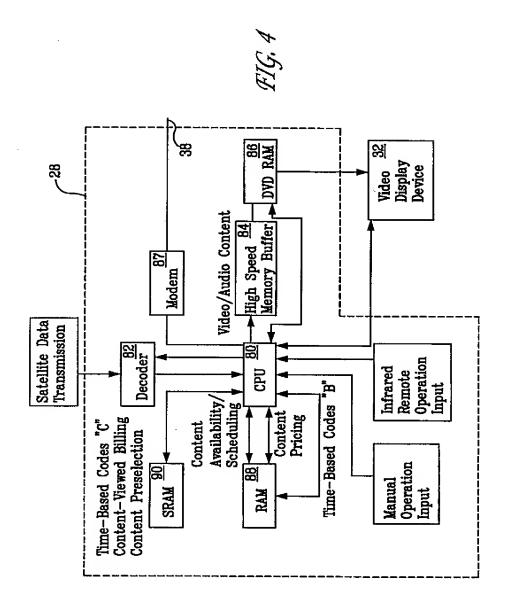


FIG. 2



4/19 Hand Held Remote LED Transmitter-50 on/off 📭 Platter In/Out 66 Programs Recorded FIG. 3 Program Selection > Right Menu selection Press twice to preselect program when located

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| | ☐ Programs Recorded ☐ Available Movies 1. New Releases ☐ Comedy ☐ Drama ☐ Action ☐ Documentary 2. Classics ☐ ☐ | FIG. 5 |
|---|--|--------|
| L | | |

| SLOT | PROGRAM |] |
|------|------------------------|--------|
| 1 | Blank Disc | 110 |
| 2 | "Return of the Jedi" | 1 |
| 3 | No Disc | 1 |
| 4 | "To Sir with Love" |] |
| 5 | Blank Disc | FIG. 6 |
| 6 | "Sleepless in Seattle" | 1 |
| 7 | "Dave" | 1 |
| 8 | Blank Disc | 1 |
| 9 | No Disc | 7 |
| 10 | "True Grit" | |
| | | 7 |

| | | ses/Comedy Titles) | | 120 |
|---|----------|-----------------------|-------|--------|
| 1 | Title #1 | 129 mins. | PG | |
| 2 | Title #2 | 98 mins. | R | |
| 3 | Title #3 | 102 mins. | PG-13 | |
| 4 | Title #4 | 108 mins. | PG | |
| 5 | <u> </u> | | | |
| 6 | | | | \neg |
| 7 | | | | |
| 8 | Y | Ý | | |

FIG. 7

LEVEL 1 TIME-BASED SECURITY CODES

| A | В | С |
|---|--|---|
| One 32 bit code in each movie header X 12 months X 100 years = 1200 32 bit codes. | One 32 bit code for each month chosen at the beginning of each month and transmitted by DBS. | One 32 bit code delivered each month by phone/modem with billing query from central controller system. C provided only when customer is in good standing. |

FIG. 8

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38 Store discrete Receive viewedaddress for content information each customer from customer household households <u>36</u> Send time-based Debit accounts of security codes C and customer households enabling commands to customers in good standing Credit accounts of content providers Financial Network

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FIG. 9

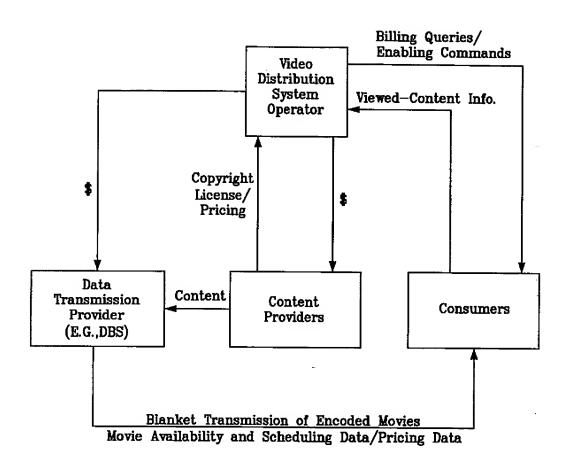
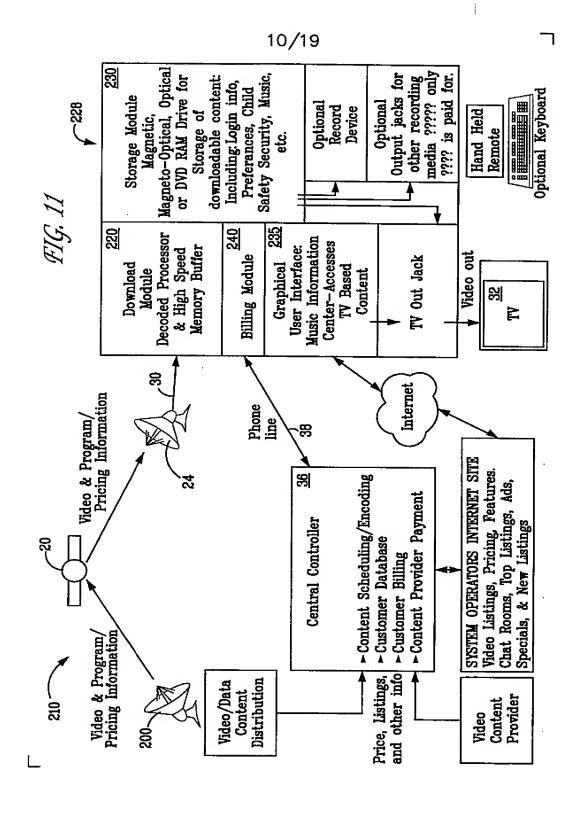


FIG. 10



| | | | | | | | <u></u> |
|-------------------|---|---|---|---|---|--|---|
| Hardware Involved | | User station, remote, customer TV. stored catalog | User station, remote, customer TV | User station, satellite receiver | User station, customer TV and speakers | User station | User station, DVD burner |
| | | Use cus cat | nse cus | Use | Use | Use | Use DVD |
| Description | Account setup Happens when customer buys and hooks up this user station | Customer looks at recently updated "catalog" of available movie selections on his TV using the graphical user interface. Use remote to page through information | Customer uses user station, remote and TV screen User station, remote, to order | Movies are downloaded during transmission hours as encrypted, compressed files through customer's satellite dish to hard disk in user station | Customer plays movie directly from hard drive with decryption/decompressing in real time. | Customer's account billed later by modem or Internet communication with central controller | Optional Full-quality movie on selected medium (e.g. DVD) "Library" that can be played on any DVD player is burned Movie Delivery with watermark. |
| Mode Name | Account setup | Selection | Ordering | Downloading | Viewing | Billing | Optional "Library" Movie Delivery |
| Step | | 1 | 2 | 3 | 4 | 5 | 9 |

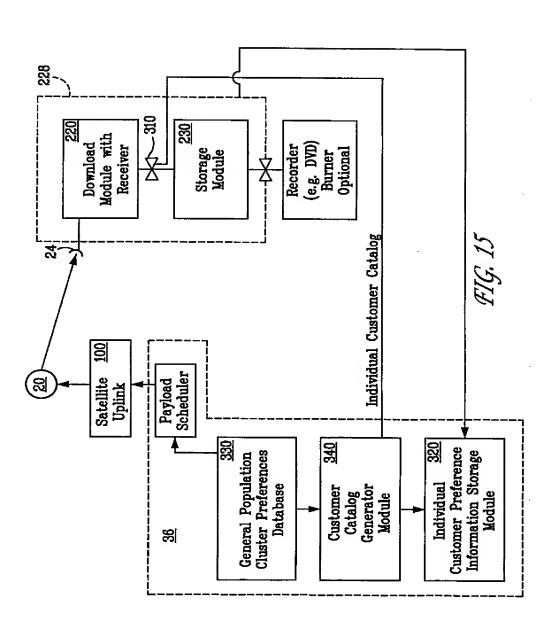
FIG. 12

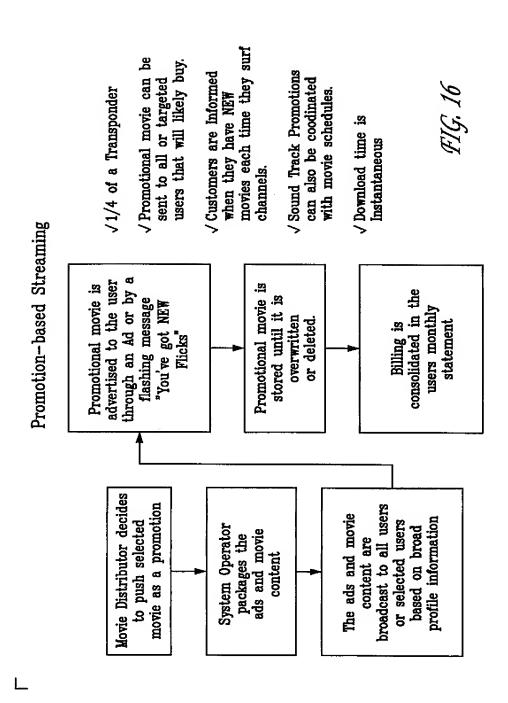
| SELECT MOVIE TYPE | PREFERENCES |
|-------------------|------------------|
| Action | Documentaries |
| Romantic Comedy | Foreign Language |
| Science Fiction | Musicals |
| Combat | Westerns |
| Animated | Political |
| Family (G) | Suspense |
| | |

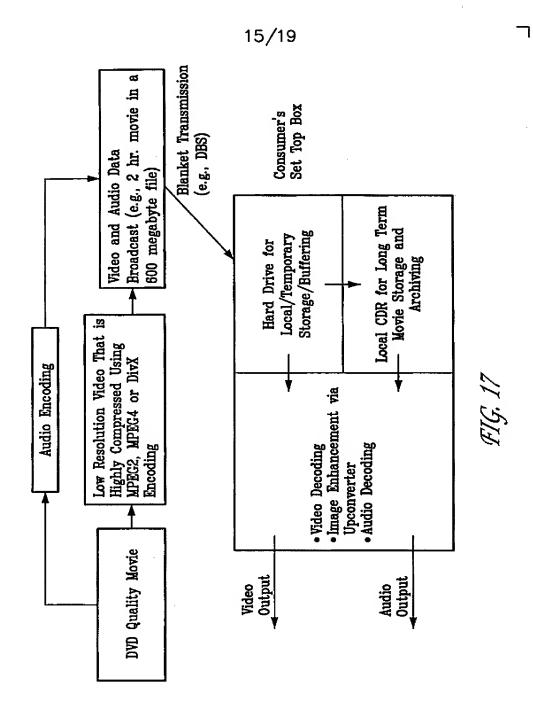
FIG. 13

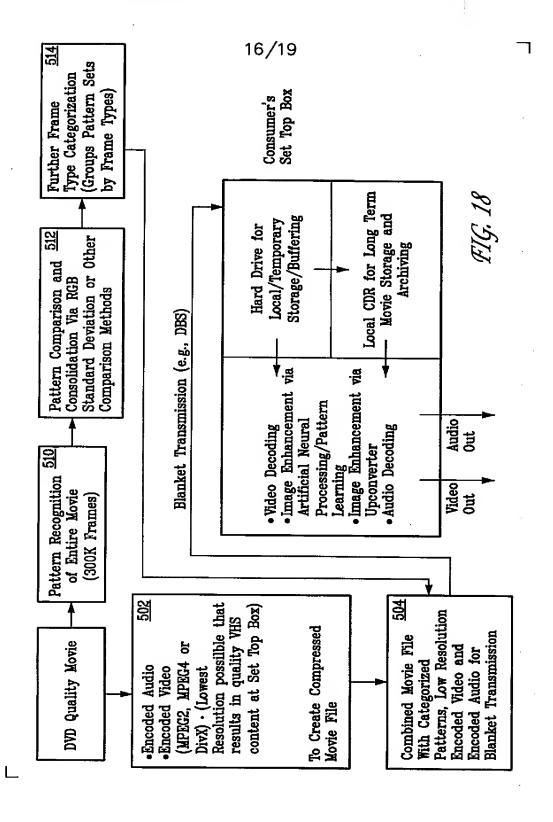
| | DECOMD IN THE MC | OVIE PREFERENCES | |
|-----------------------------------|-------------------------------------|--------------------------|----------------------------|
| Favorite Movie Stars (Male) | Favorite Movie Stars (Female) | Favorite Directors | Preferred Rating(s) |
| Mel Gibson Tom Hanks | Julia Roberts Meg Ryan | George Lucas John Doe | G PG PG-13 R X |

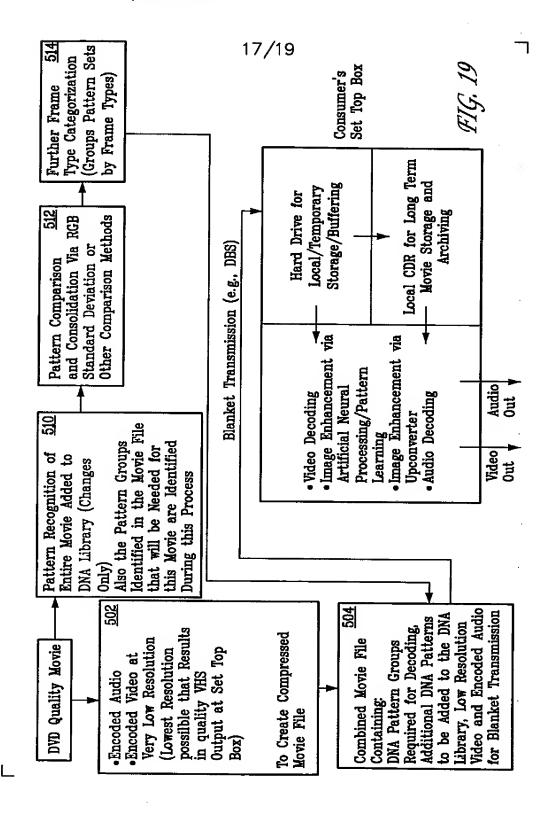
FIG. 14

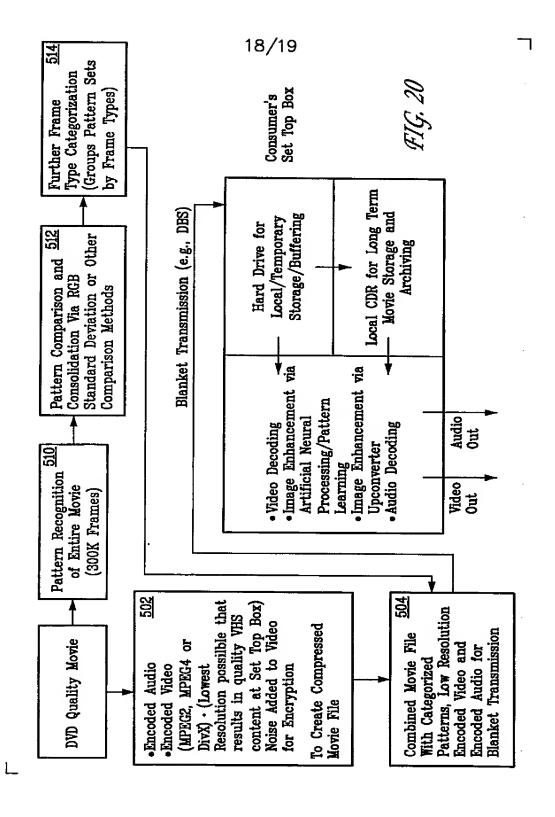












Frame Group 3 ... Frame Group n Pattern 1 Pattern 2 Pattern 3 Pattern N Pattern 1 Pattern 2 Pattern 3 DNA Pattern Library Pattern N Frame Group 2 Pattern 1 Pattern 2 Pattern 3 Pattern N Frame Group 1 Pattern 1 Pattern 2 Pattern 3 Pattern N

Video Content File

- Required Frame Groups: 1, 4, 7, 9, ... n
 Additional Patterns to be Added to DNA Library Groups
 Highly Compressed/Noise Added Video File